



- "4%\$!\* )\$0 1,'

, \*5 4006,'

FG!M" ! "#\$%&'()\*+,-./0, #012+0k '\$230, k\*. k4\*+0#" ,51k6 #\*, \*.7"T%6):\*85\*"U\*, '\*\$"/"P'50)\*\* /)0H  
9\*/)6,?"U)68'\*\$7"J(/6(,?"FG!MK

FG![" 9%H), (/ \$:( )%'@')0"U(, (0"S\*/8, %/"%- "80#%\$k\_., `8`, '&"Y,6/7"@' / / \*, "%-)0\*" +, 'a"S% / &%6,) -%, "  
-', \$)"/%>\*:bK"RO\*" = /'>\*, \$')? "%- " c \*Z, (\$A(+, \*\$K"W&)%Z\*, "FG! [K"

FGGN" 930k : (. 2, \*". k"; k, 30k4#0\$ <k\$. +k, 30k= "+-k\*. k4\*+0#" ,51k6 "#>I?k+\*)\*, "4 (/5"+6Z: '\$0' /57"C / &K7" /"  
1, k" S')(" ; (?X"\$\*\$, '\*\$7"dRO\*" #5\*%" -"T\*>%:6) %/" (/8"T% 3 (/)'&'\$3 0"C /)\*, 8'\$&'2: ' / (, ?"U)68'\*\$7e"  
J6 / \* "FGGN"

"

"

45 -++ #7# + (\$+ 8 + / '\* #) \$!%+, "

"

FG! I"

FGGD"

,

Y%%A"T\*>'\*@0"



"  
FGGM"" R0\*" # 3 \*, '&("/U%&'\*)? "-%, "P'50)\*\*(/)OH9\*/ /)6, ?"U)68'\*\$7"d1 \*- /' /5'i \ '&\*7" \ \*,)67" g" \ ` ,)' i0"  
+\*8(5%5'&(: "+\*, \$2\*&)'>\*\$%/" +, \*HT\* >: %:6)'% / (, ?" . , \* /&0"4)'\*, ()6, \*( /8"9% /) \* 3 2%, (, ?"  
96:)6, \*7e" T'&0 3 % /87" \ #7" ; (, &0"FGGMK" \_c ()' % / (:b"  
"  
FGGI"" R0\*" # 3 \*, '&("/U%&'\*)? "-%, "P'50)\*\*(/)OH9\*/ /)6, ?"U)68'\*\$7"dR0\*"U6:)( /' /' 1 '8\*, %)X\$ /OIk= \*U" (Vk  
I. +\*12#0, IOk # / "P'50)\*\*(/)OH9\*/ /)6, ?"C /) \* , / \* ) \ % ? \*6, ke" +%, ): ( /87"WT7" ; (, &0"FGGIK" \_c ()' % / (:b"  
"  
FGG[" R0\*" # 3 \*, '&("/U%&'\*)? "-%, "P'50)\*\*(/)OH9\*/ /)6, ?"U)68'\*\$7"dEH 1 "J\* @\*:, ?" /' 1 '8\*, %)i\$ /OIk= \*U" (Vk  
\* . +\*12#0, IOk 1 \*\$' , \*7" 1 62: '&)'? "( /8" 1 \* &\*2)'% /ke" #): ( /) (7" S #7" ; (, &0"FGG[" \_c ()' % / (:b"  
k  
FGGV"" R0\*" # 3 \*, '&("/U%&'\*)? "-%, "P'50)\*\*(/)OH9\*/ /)6, ?"U)68'\*\$7"dR0\*" # /' 3 () \*8"U)()6\*0" 1 '8\*, %)i\$"  
PA20, (\$' %\$ "- . (:& % / \*)i\$ "8-7 < \$% " . 7e" ; % /), ` (:7" 9 / (8(7" ; (, &0"FGGVK" \_c ()' % / (:b"  
"  
FGGD"" = /' > \* , \$)' ? "% - "m\* /)6&A?' . % , \*5" /4 ( /56(5\* "9% / - \* , / &\*7" d ; %Z' : \* "U)()6\*\$0" 1 '8\*, %)i\$ "9% / &\*2)"% -"  
; ' 3 \*\$' \$7e" 4 \* a' /5)% /7" m q 7" #2, ': "FGGDK" \_c ()' % / (:b"  
"  
FGGD"" R0\*" # 3 \*, '&("/U%&'\*)? "-%, "P'50)\*\*(/)OH9\*/ /)6, ?"U)68'\*\$7"d+ ( /) \*8" Y% 8' \* \$0" # / (: %5' & "PA20, (\$' \$"  
' /' 1 '8\*, %)7e" 4 (\$" \ \*5(\$7" c \ 7" ; (, &0"FGGDK" \_c ()' % / (:b"  
"  
FGGN"" R0\*" # 3 \*, '&("/U%&'\*)? "-%, "P'50)\*\*(/)OH9\*/ /)6, ?"U)68'\*\$7"d1 \*\$' , \* " /' 1 '8\*, %)i\$ /OIk= \*U" (Vk  
\* . +\*12#0, IO" 1 '\$\$% / ( /) "J\* @\* : "\$ ( /8" 4% > \* i\$ " . % % : \$7e" Y% \$) % /7" ; #7" ; (, &0"FGGNK" \_c ()' % / (:b"  
"  
FGGE"" R0\*" c \* @ "P /5: ( /8" U% &' \*)? "-%, "P'50)\*\*(/)OH9\*/ /)6, ?"U)68'\*\$7"d1 '8\*, %)i\$ /OIk= \*U" (Vk \* . +\*12#0, IO"  
+6Z: '& " 1 \* &: (, ()' % / \$ "% - " +, ' > ( ) \* " 1 \* \*8\$7e" +, % > '8\* / &\*7" ; #7" c % > \* 3 Z\* , "FGGEK" \_T \*5' % / (:b"  
"  
FGGF"" R0\*" c ' / \* ) \*\* (/)OH9\*/ /)6, ?" . , \* / &0"U)68'\*\$9% : : % < 6'637"dR0\*" + (, (8% a' & (: " 1 \*\$' , \* "% - " ; ' 3 \*\$' \$' / "  
U) \* /80 (:X\$ " /OkL" ( 70k0, k%Ok . "" #7e" 9% : 63 Z6\$7"W ^ 7"W&) %Z\* , "FGGFK" \_c ()' % / (:b"  
"  
!MME""

!5 !9\*\$#+/'- \*1+%,'

"

FG!M" +(/\*:"W,5(/'Q\*,0"R0\*"C/)\*,/(%)%/(:"U%&'\*)?%"-"P'50)\*\*/)0H9\*/)6,?"U)68'\*\$7"  
:  
U&%):( /87"J6:?"FG!MK" \_C/)\*,/(%)%/(:"b" , P8'/Z6,507"

"

FG!M" 90(' ,0" c \*@"4'50)\$" .%,637"U()\*::)"\*9(6&6\$%-)0\*" # 3 \* ,&(/"U%&'\*)?%"-"P'50)\*\*/)0H9\*/)6,?"  
U)68'\*\$0"d9%,,62)'%/"(/8"P/:'50)\* / 3 \*/)7e" 1 \*/>\*,7"9W7" ; (,&0"FG!MK" \_c ()'%/(:b"

"

FG!I" 90(' ,0" c \*@"4'50)\$" .%,637"U()\*::)"\*9(6&6\$%-)0\*" # 3 \* ,&(/"U%&'\*)?%"-"P'50)\*\*/)0H9\*/)6,?"  
U)68'\*\$0"dY%,8\*,\$7"Y%6/8(,'\*\$"/8"Y(,,'\*,\$7e"W,:(/8%7" . 47" ; (,&0"FG!IK" \_c ()'%/(:b"

"

FG!I" +(/\*:" ; %8\* ,()%)\_0"C/)\*,/(%)%/(:"9%/-\* ,\*/&\*%9(:'Z(/'\$3 \*\$\*)" # /):'::(/'\$3 \*\$0"P\$2(&\*%\$\*)"  
R%2%5,(20'\*\$7"2(/\*:"%- "6/8\*,5,(86()\*\$)68\*/)2,\*\$\*/)(%)%/\$%/" ! ""\*9\*(Y\$&R""#2\*P#07"  
; (<6\*)\*)="/'>\*,\$')?7" ; ':@(6A\*\*7" B C7" #2,':"FG!IK" \_C/)\*,/(%)%/(:"b"

"

FG!N"" +(/\*:" ; %8\* ,()%)\_0"R0\*"N!"C/)\*,/(%)%/(:"9%/-\* ,\*/&\*%/"9(,'ZZ\*(/"U)68'\*\$7"d ; (,5'/\$"/8"  
C/)\*,\$\*&)'%/\$"/" # /):'::(/" #,)"(/8'4')\*,(06,\*\$7e" ; (<6\*)\*)="/'>\*,\$')?7" ; ':@(6A\*\*7" B C7"  
c %>\* 3Z\*,"FG!NK" \_C/)\*,/(%)%/(:"b"

"

FG!!" U\*\$%\$"/"90(',)"(/8'+(/\*:"W,5(/'Q\*,0"R0\*" # 3 \* ,&(/"U%&'\*)?%"-"P'50)\*\*/)0\*(%)%(/)-1()-2(0)-1())TJETQq0.

$$dR_0^* + (8a^* - R_0^*)^2 + (\frac{1}{Z})^2 T^* (\frac{1}{Z})^2 = /, * (\frac{1}{Z})^2 + (\frac{1}{Z})^2 ke$$





FG!V" 9%::\*5\*%- "#,)\$"/8"U&'\*/&\*\$. (::". (&6:)?"R,(>\*: "#@,(,8"\_vIGGb"-%,"),(>\*:)"("\$\*&%/8"  
&%/ -\*,\*/&\*b"

FG!V" S,(86()\*"U&0%%:". (&6:)?"1\*>\*: %23\*/)"#@,(,8"\_v!7NGGb"-%,"),(>\*:)"("&%/ -\*,\*/&\*"/"Wa-%,87"  
=mĳ"

FG!D" U63 3 \*,". (&6:)?". \*::%@\$0'2"\_vD7DGGb"

" . (&6:)?"1\*>\*: %23\*/)"#@,(,8"\_144.523212T(")-2q0.2\_-1(1-1(%,)3543592.8057c3Tm348057cmBT4